INDEX TO VOLUME 37

[New names in **boldface** type]

aberti, Sciurus, 80
Abnormalities:
  Clethrionomys, 298
  Dicrostonyx (teeth), 549
  Odocoileus, 231
Activity:
  Apodemus, 1
  Dusicyon, 284
  Lepus, 64
  Otaria, 287
  Peromyscus, 74
  Procyon, 170
  Tadarida, 282
  Tamiasciurus, 64
acutus, Lagenorhynchus, 128
Adams, Lowell, S. B. Salvin, and W. J. Hadlow:
  Ringworm in a population of snowshoe hares, 94
Adrenal weight, Rattus, 475
Afghanistan, 299
Africa, 531
Age classes, Tadarida, 42
Age determination, Microtus, 249
Age ratio, Ondatra, 494
Aggressiveness, Odocoileus, 143, 458
agrarius, Apodemus, 1
Alabama, 346
Alaska, 181, 291, 327, 337
Albinism:
  Lagenorhynchus, 311
  Microtus, 298
  Myotis, 546
  Procyon, 120
Alces alces, B. C., hab., 486; Quebec, hab., 300, 458
  americanus, Ont., 119
alces, Alces, 300, 458, 486
Alertness, Procyon, 170
Allen, E. Ross and Wilfred T. Neill:
  Albinistic sibling raccoons from Florida, 120
alleni, Neofiber, 448
americana, Martes, 80, 375, 521
americanus, Alces, 119
  Lepus, 64, 94, 375
  Ursus, 119, 538
amoenus, Eutamias, 80
Anderson, Sydney:
  (see Findley, James S. and Anderson)
  (see Rodeck, Hugo G. and Anderson)
angulatus, Pecari, 246
anomalus, Sciurus, 257
Antlers, Odocoileus, 231
Antrozous pallidus pacificus, Calif., para., 443
Aplodontia rufa, Calif., phys., wt., 87
Apodemus agrarius coreae, Korea, dis., hab., 1
  argenteus argenteus, Japan, distr., 272
  speciosus sadoensis, Japan, distr., 272
  sylvaticus, Iraq, distr., 257
aquaticus, Scalopus, 407
arcticus, Rangifer, 337, 375
Arctocephalus galapagoensis, Galapagos Is., distr., 549
argenteus, Apodemus, 272
Arizona, 48, 105, 111, 282, 289, 292, 458, 546
armatus, Citellus, 550
Artibeus jamaicensis, Mexico, distr., 547
  lituratus palmarum, Mexico, distr., 283
Associates:
  Apodemus, 1
  Myotis, 441
  Sorex, 435, 436
Australia, 456
australis, Balaena, 456

Backus, Richard H.:
  (see Mackiewicz, John and Backus)
Bacon, Marion:
  (see Hudson, George E. and Bacon)
Baculum, Castor, 506
bairdi, Delphinus, 311
Bait acceptance, Peromyscus, 358
Bait shyness, Peromyscus, 358
Baker, Rollin H.:
  Eumops underwoodi sonoriensis in Arizona, 111
  (see Findley, James L. and Baker)
Baker, Rollin H. and Robert W. Dickerman:
  Daytime roost of the yellow bat in Veracruz, 443
Balaena australis, Australia, distr., hab., phys., 456
Balaenoptera physalus, Calif., distr., 455
Balantiopteryx plicata, Mexico, distr., 547
Barbour, Roger W.:
  A record of Microsorex hoyi from Kentucky, 438

Synaptomys cooperi in Kentucky, with description of a new subspecies, 413
Two new mammal records from Kentucky, 110
Barbour, Roger W. and Charles E. Smith, Jr.:
Pitymys pinetorum carbonarius in Harlan County, Kentucky, 121
Barkalow, F. S., Jr.:
A handicapped flying squirrel, Glaucomys volans, 122
Extension of the known range of Marmota monax in Alaska, 291
Bartholomew, George A. and Ford Wilke:
Body temperature in the northern fur seal, Callorhinus ursinus, 327
Bartsch, Paul:
An interesting catch, 111
Banding:
Corynorhinus, 48
Eptesicus, 48
Myotis, 48
Pipistrellus, 48
Bat:
big brown, 31, 48, 279, 407, 441, 443, 543
big-eared, 48
cave myotis, 48
common vampire, 547
evening, 282, 543
Florida yellow, 440
fringe-tailed, 545
hairy-legged vampire, 547
hoary, 111, 281, 407
Japanese myotis, 272
lappet-chinned, 440
least brown, 441
little brown, 48, 58, 395, 407, 440, 441, 543
long-winged, 272
mastiff, 111
Mexican big-eared, 546
Mexican free-tailed, 42, 48
North Arabian long-fingered, 257
pallid, 443
pipistrelle, 543
pocketed freetail, 282
red, 279, 280, 395, 407, 442, 543,
silver-haired, 111, 282, 442
Trouessart's, 543
Turkestan serotine, 257
western big-eared, 443
yellow, 443
Yuma, 443
Beach, Frank A. and Julian Jaynes:
Studies of maternal retrieving in rats. I. Recognition of young, 177
Bear:
black, 119, 538
Beaver, 375, 407, 506
mountain, 87
beecheyi, Citellus, 189
Beer, James R.:
A record of a silver-haired bat in a cave, 282
Beer, James R. and A. Glenn Richards:
Hibernation of the big brown bat, 31
Behavior:
Callorhinus, 327
Delphinus, 311
Globicephala, 311
Grampus, 311
Lagenorhynchus, 128, 311
Peromyscus, 358
Tursiops, 311, 454
Beidleman, Richard G.:
An early record of the wolverine in Western Nebraska, 445
beldingi, Citellus, 550
Benton, Allen H.:
(see Schwager, Harold and Benton)
Berg, Jacob:
(see Ross, Sherman and Berg)
Birdseye, Clarence:
Observations on a domesticated Peruvian desert fox, Dusicyon, 284
bisulcatus, Pipestoneomys, 264
Blarina brevicauda, N. A., 236; N. C., hab., 427; Ont., hab., 274
brevicauda brevicauda, N. Y., distr., hab., 395; O., hab., 543
brevicauda kirtlandi, Ind., distr., hab., 407
Blood:
Peromyscus, 427
Reithrodontomys, 427
Sigmodon, 427
Bobcat, 375, 458, 548
Bond, Charles F.:
Correlations between reproductive condition and skull characteristics of beaver, 506
borealis, Lasiurus, 279, 280, 395, 407, 442, 543
bottae, Thomomys, 201
Bourlière, François:
Mammals of the world (Reviewed), 133
Brand, Raymond H.:
A protective device for reducing trap disturbance, 428
brasiliensis, Tadarida, 48
Breeding habits:

Napaeozapus, 196
Vulpes, 351
Breeding season:
Alces, 300
Apodemus, 1
Castor, 506
Condylura, 223
Glaucomys, 294, 295
Ondatra, 494
Urocyon, 346
brevicauda, Blarina, 236, 374, 395, 427, 543
British Columbia, 83, 114, 486
Bronchial diverticula, Blarina, 236
Brown, David H. and Kenneth S. Norris:
Observations of captive and wild cetaceans, 311
Burnett, Frances L. and Robert W. Dickerman:
Type locality of the Mogollon red squirrel, Tamiasciurus hudsonicus mogollonensis, 292
Burrows, Tamias, 23
Burt, William H.:
(Review of) Cockrum, E. L., Laboratory Manual of Mammalogy, 132

Caldwell, David K.:
Intentional removal of a disturbing object by an Atlantic bottlenose dolphin, 454
(see Seibenaler, J. B. and Caldwell)
California, 74, 87, 108, 124, 143, 189, 201, 213, 249, 291, 311, 358, 371, 452, 455
californicus:
Lepus, 453
Microtus, 213, 249
Callorhinus ursinus, Alaska, hab., phys., 327; B. C., distr., wt., 83
Cameron, Austin W.:
A new black bear from Newfoundland, 538
canadensis:
Castor, 375, 407, 506
Cervus, 129, 165
Lutra, 284
Lynx, 375
Canidae, tax., 11
Canis lupus, Alaska, hab., 337; Alaska, phys., 375
Capra hircus, Me., hab., 129
Captivity:
Blarina, 274, 543
Delphinus, 311
Dicrostonyx, 447
Dusicyon, 284
Lagenorhynchus, 311
Microtus, 298
Neofiber, 448
Notiosorex, 108
Peromyscus, 74
Tursiops, 311
Capture:
Lagenorhynchhus, 311
Mustela, 114
Caribou, barren ground, 337, 375
carolinensis, Sciurus, 395, 407, 525
Caslick, James W.:
Color phases of the roof rat, Rattus rattus, 255
Castor canadensis, Alaska, phys., 375; Ind., distr., wt., 407
canadensis canadensis, Vt., anat., phys., wt., 506
Cat, house, 119
catclawensis, Ovis, 105
Cervus canadensis, Colo., 129
canadensis roosevelti, 165
dybowskii, syn., 99
elaphus xanthopygus, syn., 99
nippon hortulorum, syn., 99
nippon kopchi, syn., 99
nippon mandarinus, syn., 99
nippon mantchuricus, syn., 99
nippon nippon, syn., 99
nippon pseudaxis, syn., 99
nippon swinhoei, syn., 99
nippon taiouanus, syn., 99
pseudaxis, syn., 99
Ceylon, 274
Chamberlain, D. M.:
(see Chute, H. L. and Chamberlain)
Chapman, Floyd B.:
The river otter in Ohio, 284
cheesmani, Gerbillus, 417
Chipmunk, 119
eastern, 23, 407
northeastern, 395
Sonoma, 189
Townsend, 189
Chittleborough, R. G.:
Southern right whale in Australian waters, 456
Christian, John J. and David E. Davis:
The relationship between adrenal weight and population status of urban Norway rats, 475

Chute, H. L. and D. M. Chamberlain:
Lymphangioma in the white-tailed deer, Odocoileus virginianus, 552
cinerea, Neotoma, 189
cinereoargenteus, Urocyon, 90, 346, 407, 548
cinereus:
Lasiurus, 111, 281, 407,
Sorex, 80, 119, 275
Citellus armatus, Ida., Utah, gen., pel., tax., 550
beecheyi, Calif., hab., 189
beldingi, Ida., Utah, gen., pel., tax., 550
lateralis, Calif., hab., 291; Colo., distr., 80
richardsoni, Wyo., gen., pel., tax., 550
townsendii, Utah, 123; Utah, hab., 124
Clethrionomys gapperi, Colo., distr., 80; N. Y., gen., 298; Ont., hab., 119
occidentalis, Calif., hab., 189
Cockrum, E. Lendell:
Homing, movements, and longevity of bats, 48
Laboratory manual of mammalogy (reviewed), 132
New genus and species, Idionycteris phyllotis, recorded from the United States, 546
Sperm whales stranded on the beaches of the Gulf of California, 288
The pocketed freetail bat, Tadarida femerosacca, in Arizona, 282
Color phase, Rattus, 255
Color variation:
Microtus, 395
Mustela, 113
Perognathus, 451
Phocoenoides, 311
Sorex, 275
Colorado, 80, 129, 276, 521
Coloration, Rattus, 378
Condylura cristata, N. Y., distr., hab., 395; Ont., hab., 119
cristata cristata, N. Y., hab., wt., 223
Conkey, James V. A.:
An unreported specimen of the whale, Balaenoptera physalus, 455
Cooperation, Tursiops, 126
cooperi, Synaptomys, 407, 413
Coprophagy, Sylvilagus, 300
Corpora lutea:
Castor, 506
Microtus, 213
Corynorhinus rafinesquii, Calif., par., 443
townsendii, hab., 48
Cowan, I. Mc T.:
(see Manzer, J. I. and Cowan)
Cramblet, Howard M. and Richard L. Ridenhour:
Parturition in Aplodontia, 87
Cranial measurements:
Miniopterus, 257
Notiosorex, 278
crassidens, Pseudorca, 456
crassus, Meriones, 417
crawfordi, Notiosorex, 108, 278
Cricetulus migratorius cinerascens, Iraq, distr., 257
Cripples, Rangifer, 337
Crisler, Lois:
Observations of wolves hunting caribou, 337
cristata, Condylura, 119, 223, 395
Crocidura suaveolens, Iraq, distr., 257
Cryptotis parva parva, Ind., distr., 407
Cuba, 423
Cunningham, John D.
Ecology and occurrence of Notiosorex in southern California, 108

D. C., 279
dalli, Phocoenoides, 311
Dasmann, Raymond F. and Richard D. Taber:
Behavior of Columbian black-tailed deer with reference to population ecology, 143
Dasypterus floridanus, Tex., distr., 440
intermedius, Veracruz, hab., 443
dasyurus, Gerbillus, 417
Davis, David E.:
A comparison of natality rates in white-footed mice for four years, 513
(Review of) Bonner, John Tyler, Cells and societies, 302
(see Christian, John J. and Davis)
Davis, Joseph A., Jr.:
A first record for Sorex dispar in New Jersey, 110
A plea for an adequate color standard, 269
Davis, Wayne H. and William Z. Lidicker, Jr.:
Winter range of the red bat, Lasiurus borealis, 280
Dawson, Mary R.:
Extra teeth in a hare, 453

Deer:
black-tailed, 165
Columbian black-tailed, 143
mule, 231, 457, 458
white-tailed, 119, 231, 395, 407, 552
Deformity, Erinaceus, 257
Delphinus bairdi, Calif., dis., hab., wt., 311
Dens:
Urocyon, 346
Vulpes, 351
Dentition:
Lagenorhynchus, 128
Microtus, 249
Muroidea, 295
Pipestoneomys, 264
Desmodus rotundus, Mexico, distr., 547
Description, Vulpes, 351
Development:
Lepus, 64
Tamiasciurus, 64
Dickerman, Robert W.:
(see Baker, Rollin H., and Dickerman)
(see Burnett, Frances L. and Dickerman)
Dicrostonyx groenlandicus groenlandicus, Manitoba, dis., hab., 447
groenlandicus richardsoni, Manitoba, dis., hab., 447
groenlandicus rubricatus, anat., 549
Didelphis marsupialis, Ind., distr., 407
marsupialis virginiana, N. Y., anat., 382; Ontario, distr., 431
Diphylla ecaudata, Mexico, distr., 547
Dipodomys (as food), 351
merriami, Calif., phys., 124
ordii, Ida., Oreg., phys., 449
Disease:
Rangifer, 337
Rattus, 181
dispar, Sorex, 110, 435
Distribution:
Apodemus, 272
Arctocephalus, 549
Hystrix, 299
Lutra, 284
Marmota, 289
Miniopterus, 257, 272
Mustela, 116, 271
Myotis, 272, 545
Notiosorex, 278
Otaria, 549
Physeter, 288
Rattus, 272
Sciurus, 525
Sorex, 543
Tadarida, 282
Trichechus, 288
Zalophus, 549
Diurnal habits, Tadarida, 48
Dolphin:
Atlantic bottlenose, 126, 311, 454
common, 311
Pacific white-sided, 311
domestica, Felis, 119
Dominance, Capra, 129
Donohoe, John C.:
New Aplodontid rodent from Montana Oligocene, 264
dorsatum, Erethizon, 80, 395, 452
Downing, S. C.:
(see Peterson, Randolph L. and Downing)
Drinking, Peromyscus, 74
dugenneanus, Sika, 99
Dupree, Louis:
Note on the distribution of the Indian crested porcupine, Hystrix indica, 299
Durrant, Stephen D.:
(Review of) Hall, E. Raymond, Handbook of mammals of Kansas, 555
Dusicyon, Peru, hab., 284
dybowskii, Cervus, 99

Eadie, W. Robert:
(Review of) Casey A. Wood and F. Marjorie Fyfe (translators and editors), The art of falconry by Emperor Frederick II, 301
(Review of) François Bourlière, Mammals of the world, 133
(Review of) Ivan T. Sanderson, Living mammals of the world, 132
(Review of) Tracy I. Storer and Lloyd P. Tevis, California grizzly, 301
Eadie, W. Robert and W. J. Hamilton, Jr.:
Notes on reproduction in the star-nosed mole, 223
Eads, R. B., G. C. Menzies, and J. S. Wiseman:
New locality records for Texas bats, 440
ecaudata, Diphylla, 547
Ecke, Dean H. and Alva R. Kinney:
Aging meadow mice, Microtus californicus, by observation of molt progression, 249

Ecology:
Citellus, 124
Notiosorex, 108
Odocoileus, 143
Rattus, 181
Suncus, 278
Economic importance, Citellus, 291
Edwards, R. Yorke and Ralph W. Ritcey:
The migrations of a moose herd, 486
Edwards, R. Y.:
(see Ritcey, R. W. and Edwards)
Egoscue, Harold J.:
Preliminary studies of the kit fox in Utah, 351
Egypt, 456
ehrenbergi, Spalax, 257
Eibl-Eibesfeldt, Irenäus:
The Otariidae of the Galapagos Islands, 549
elaphus, Cervus, 99
Electrocardiogram, Lynx, 549
Elk, 129
Roosevelt, 165
Enemies:
Eptesicus, 279
Vulpes, 351
England, 438
Enhydra lutris, Alaska, phys., 375
Epling, Glenwood P.:
Morphology of the scent gland of the javelina, 246
Eptesicus fuscus, hab., 48; Minn., hab., phys., wt., 31
fuscus bernardinus, Calif., par., 443
fuscus fuscus, D. C., hab., 279; Ind., distr., hab., 407; Ind., distr., hab., meas., wt., 543; O., hab., 441
serotinus turcomanus, Iraq, distr., 257
Erethizon dorsatum, Colo., distr., 80
dorsatum dorsatum, N. Y., distr., 395
dorsatum epixanthum, Calif., hab., 452
Erinaceus europaeus, Iraq, distr., anat., 257
erminea, Mustela, 113, 395
Escape behavior, Lynx, 458
europaea, Talpa, 438
europaeus, Erinaceus, 257
Eutamias amoenus, Colo., distr., 80
sonomae, Calif., hab., 189
townsendii, Calif., hab., 189
umbrinus, Colo., distr., 80
Eumops underwoodi sonoriensis, Ariz., distr., 111
Ewers, Dorothea:
(see Nice, Margaret M., Nice, and Ewers)
Extension of range:
Balantiopteryx, 547
Eptesicus, 257
Erinaceus, 257
Eumops, 111
Idionycteris, 546
Marmota, 291
Mustela, 113
Sciurus, 525
Sorex, 276, 277
Spalax, 257
Suncus, 278

fasciatus, Perognathus, 451
Feeding:
Delphinus, 311
Dicrostonyx, 447
Eptesicus, 279
Glaucomys, 122
Grampus, 311
Lagenorhynchus, 311
Lupus, 337
Notiosorex, 108
Peromyscus, 74
Phocoenoides, 311
Pliohippus, 459
Procyon, 170
Tursiops, 311
Felidae, tax., 11
Felis domestica, Ont., hab., 119
femerosacca, Tadarida, 282
Findley, James S.:
Merriam shrew in New Mexico, 277
Possible Himalayan color pattern in the masked shrew, 275
Utilization of a bird's nest by the meadow vole, 120
Findley, James S. and Rollin H. Baker:
Dwarf shrew first reported in South Dakota, 543
Findley, James S. and Sydney Anderson:
Zoogeography of the montane mammals of Colorado, 80
Fisher, 287
flaviventris, Marmota, 80, 289
Florida, 120, 126, 281, 448, 454, 548
floridanus:
Dasypterus, 440
Sylvilagus, 271, 300, 395, 407
Fluctuation, Dicrostonyx, 447
foina, Martes, 257
Food:
Blarina, 274, 543
Dusicyon, 284

Eutamias, 189
Lagenorhynchus, 128
Microtus, 297 298
Peromyscus, 189
Sorex, 189
Spalax, 257
Suncus, 278
Food storage, Tamias, 23
Foreman, Charles W.:
Notes and blood data on some small mammals of Durham County, North Carolina, 427
Fox:
gray, 90, 346, 407, 548
kit, 351
Peruvian desert, 284
red, 90, 375, 395, 407
frenata, Mustela, 407
French, Robert L.:
Eating, drinking, and activity patterns in Peromyscus maniculatus sonoriensis, 74
fulva, Vulpes, 90, 375, 395, 407
fumeus, Sorex, 395
fuscipes, Neotoma, 189, 371
fuscus, Eptesicus, 31, 48, 279, 407, 441, 443, 543

galapagoensis, Arctocephalus, 549
Galapagos Islands, 287, 549
gapperi, Clethrionomys, 80, 119, 298
Georgia, 288
Gerbil, 417
Cheesman's, 417
Indian, 417
Gerbillus cheesmani cheesmani, Iraq, distr., hab., 417
dasyurus dasyurus, Iraq, distr., hab., 417
dasyurus mesopotamiae, Iraq, orig., desc., 417
gigantea, Manis, 531
Gilbert, Paul F. and Ralph R. Hill:
Healing of the fractured leg bone of an elk, 129
gland, scent, Pecari, 246
Glaucomys sabrinus, Colo., distr., 80; Ont., hab., 119
sabrinus macrotis, N. Y., distr., hab., 395
volans, N. C., hab., wt., 122
volans volans, Ill., wt., hab., 294; Ind., distr., hab., 407; W. Va., phys., hab., 295
Globicephala scammoni, Calif., hab., wt., 311
Glover, Richard:
Notes on the Sika deer, 99
Goat, 129
Godfrey, Gillian K.:
Reproduction of Talpa europaea in Suffolk, 438
Goodpaster, Woodrow:
(see Smith, Elizabeth and Goodpaster)
Gopher, pocket, 201, 540
Gottschang, Jack L.:
Juvenile molt in Peromyscus leucopus noveboracensis, 516
Graf, William:
Territorialism in deer, 165
Grampus rectipinna, Calif., hab., wt., 311
Greenwald, Gilbert S.:
The reproductive cycle of the field mouse, Microtus californicus, 213
groenlandicus, Dicrostonyx, 447, 549
Ground-sloth, 423
Ground squirrel, 550
Townsend, 123, 124
Guam, 278
Guilday, John E.:
Archeological evidence of the fisher in West Virginia, 287
Gulo luscus, Nebr., distr., 445

Habitat:
Apodemus, 1
Balaena, 456
Citellus, 189, 291
Clethrionomys, 189
Eptesicus, 31, 543
Eutamias, 189
Glaucomys, 294
Idionycteris, 546
Lasionycteris, 111
Lasiurus, 543
Martes, 521
Microtus, 436
Mormoops, 440
Myotis, 441, 543
Napaeozapus, 196
Neotoma, 189
Notiosorex, 108
Nycticeius, 543
Perognathus, 451
Peromyscus, 189
Pipistrellus, 543
Sorex, 110, 189, 276, 435, 436
Suncus, 278
Tadarida, 42
Vulpes, 351

Hadlow, W. J.:
(see Adams, Lowell, Salvin and Hadlow)
Haft, Jay Stuart:
Pituitary removal in Microtus with preservation of skull, 446
Hall, E. Raymond:
Handbook of mammals of Kansas (Reviewed), 555
Hamilton, W. J., Jr.:
The young of Neofiber alleni, 448
(see Eadie, W. Robert and Hamilton)
Hammel, H. T.:
Infrared emissivities of some Arctic fauna, 375
Hamster, gray, 257
Handley, Charles O., Jr.:
A third specimen of the shrew Notiosorex from Oklahoma, 278
Bat versus ant, 279
The shrew Sorex dispar in Virginia, 435
Hansen, Richard M.:
Decline in Townsend ground squirrels in Utah, 123
Extra incisors in the rodent Dicrostonyx groenlandicus, 549
Microenvironmental influence on periodicity in Townsend ground squirrels, 124
Remarks on reported hybrid ground squirrels, Citellus, 550
Hanson, William R.:
Aggressive behavior of mule deer toward bobcat, 458
Hare, 453
snowshoe, 64, 94, 375
Harrison, David L.:
Gerbils from Iraq, with description of a new gerbil, 417
Mammals from Kurdistan, Iraq, with description of a new bat, 257
Hayward, C. Lynn:
Pelage color changes in Perognathus longimembris, 451
Hayward, C. Lynn and Merlin L. Killpack:
Occurrence of Perognathus fasciatus in Utah, 451
Heat loss:
Canis, 375
Castor, 375
Enhydra, 375
Lepus, 375
Lynx, 375
Martes, 375
Rangifer, 375
Rattus, 378
Vulpes, 375
Heat prostration, Callorhinus, 327
Hedgehog, European, 257
hemionus, Odocoileus, 143, 165, 457, 458
Hemorrhagic fever, Apodemus, 1
Hermaphrodite, Odocoileus, 231
Hibbard, Claude W. and Barton A. Wright:
A new Pleistocene bighorn sheep from Arizona, 105
Hibbard, Edmund A.:
Range and spread of the gray and the fox squirrels in North Dakota, 525
Hibernation:
Citellus, 124
Eptesicus, 31
Eutamias, 189
Lasionycteris, 282
Napaeozapus, 196
Zapus, 122
Hill, Ralph K.:
(see Gilbert, Paul F. and Hill)
hircus, Capra, 129
hispidus, Sigmodon, 427
Hoffmeister, Donald F.:
A record of Sorex merriami from northeastern Colorado, 276
Hog, musk, 246
Home range:
Apodemus, 1
Odocoileus, 143
Homing:
Corynorhinus, 48
Eptesicus, 48
Myotis, 48
Pipistrellus, 48
Hooper, Emmet T.:
Longevity of captive kangaroo rats, Dipodomys, 124
Selection of fats by dermestid beetles, Dermestidae, 125
Horse, 459
hortulorum, Cervus, 99
House, Neotoma, 371
Howard, Walter E.:
(see Morejohn, G. Victor and Howard)
hoyi, Microsorex, 438
Hudson, George E. and Marion Bacon:
New records of Sorex merriami for eastern Washington, 436
hudsonicus, Tamiasciurus, 64, 80, 292, 395
hudsonius, Zapus, 119, 122, 299, 395
humeralis, Nycticeius, 282, 543
humulis, Reithrodontomys, 427

Hunting, Canis, 337
Hyaenidae, tax., 11
Hybrids, Citellus, 550
Hystrix indica, Afghanistan, distr., 299

Idaho, 231, 449, 494, 550
Idionycteris phyllotis, Ariz., distr., hab., meas., 546
Illinois, 280, 294
Illustration:
Abnormal antlers and cryptorchid gonad of deer, 232
Brown rat showing frostbite, 183
Cave habitat of Eptesicus, 33
Female Manis with baby and head of Manis, 534
Habitat of Apodemus, 3, 4
Hare infected with ringworm, 97
Liver showing cysts, 553
Model of burrow of Tamias, 26
Molar of Myotis, 61
Molt in Thomomys, 210
Molt pattern of Microtus, 251
Ovarian follicles of Microtus, 217
Raccoons at feed station, 174
Scent gland of javelina, 247
Skulls of Ursus, 538
Teeth of Myotis, 59
X-ray of dentary bones of lemmings, 550
Imaizumi, Yoshinori:
(see Jones, J. Knox, Jr. and Imaizumi)
Indiana, 64, 280, 282, 407, 543
indica:
Hystrix, 299
Tatera, 417
Injury:
Cervus, 129
Glaucomys, 122
insignis, Napaeozapus, 119, 196
intermedius, Dasypterus, 443
Iowa, 457
Iraq, 257, 417

jamaicensis, Artibeus, 547
Japan, 272
Javelina, 246
Jaynes, Julian:
(see Beach, Frank A. and Jaynes)
Johnson, David H.:
An early record of a marsupial in Ceylon, 274
Jones, J. Knox, Jr. and Yoshinori Imaizumi:
Mammals from Sado Island, Japan, with comments on the status of Apodemus argenteus, 272
Jordan, James S.:
Notes on a population of eastern flying squirrels, 294
jubata, Otaria, 287, 549

Kansas, 111, 540
keenii, Myotis, 48, 543
Kentucky, 110, 121, 413, 438, 546
Killpack, Merlin L.:
(see Hayward, C. Lynn and Killpack)
Kinney, Alva R.:
(see Ecke, Dean H. and Kinney)
Kirkpatrick, Charles M.:
Coprophagy in the cottontail, 300
Koopman, Karl F.:
Bats from San Luis Potosi with a new record for Balantiopteryx plicata, 547
Korea, 1

Laboratory use of Lynx, 548
Lagenorhynchus acutus, Mass., hab., distr., anat., 128
obliquidens, Calif., dis., hab., wt., 311
Lange, Arthur L.:
Woodchuck remains in northern Arizona caves, 289
Lasionycteris noctivagans, Atl. O., hab., 442; Minn., hab., 282; Va., hab., 111
Lasiurus borealis, Atl. O., hab., 442; N. Y., hab., 442; W. Va., Ind., Ill., Mo., hab., 280; Wisc., 279
borealis borealis, Ind., distr., hab., 407; Ind., distr., hab., meas., wt., 543; N. Y., distr., hab., 395
cinereus, Fla., wt., distr., 281; Kan., distr., 111
cinereus cinereus, Ind., distr., hab., 407
lateralis, Citellus, 80, 291
LeBlanc, J. S.:
Rearing of lemmings at Fort Churchill, Manitoba, 447
Lemming:
Greenland collared, 447
varying, 549
Leone, Charles A. and Alvin L. Wiens:
Comparative serology of carnivores, 11
Lepus (as food), 351
americanus, Alaska, phys., 375; Mont., dis., 94
americanus phaeonotus, Manitoba, wt., phys., hab., 64
californicus, anat., 453

leucopus, Peromyscus, 122, 395, 407, 427, 513 516
Lidicker, William Z., Jr.:
(see Davis, Wayne H. and Lidicker)
Life span, Dipodomys, 124
Lindsay, Dwight M.:
Additional records of Nycticeius in Indiana, 282
Some bat records from southeastern Indiana, 543
Lindt, Chester C.:
Underwater behavior of the southern sea lion, Otaria jubata, 287
Linsdale, Jean M. and Lloyd Tevis, Jr.:
A five-year change in an assemblage of wood rat houses, 371
Litter size:
Condylura, 223
Glaucomys, 295
Ondatra, 494
Peromyscus, 513
Urocyon, 346
lituratus, Artibeus, 283
Live trapping:
Glaucomys, 294
Mustela, 114
Thomomys, 201
Locomotion:
Lepus, 64
Tamiasciurus, 64
Longevity, Dicrostonyx, 447
longicaudatus, Manis, 531
longicaudus, Microtus, 80
longimembris, Perognathus, 451
longirostris, Sorex, 110, 427
Lord, Rexford P., Jr.:
The loss of ear tags in the gray fox and raccoon, 548
lotor, Procyon, 120, 170, 395, 407, 445, 548
lucifugus, Myotis, 48, 58, 395, 407, 440, 441, 543
lupus, Canis, 337, 375
luscus, Gulo, 445
Lutra canadensis, Ohio, distr., 284
lutris, Enhydra, 375
lybicus, Meriones, 417
Lymphangioma, Odocoileus, 552
Lynx, 375
Lynx canadensis, Alaska, phys., 375
rufus, Ariz., hab., 458; phys., 375; phys., 549; tech., 548

Macdonald, J. R. and Sherrill Swenson:
Did the Pliocene horse Pliohippus eat hackberries, 459
Mackiewicz, John and Richard H. Backus:
Oceanic records of Lasionycteris noctivagans and Lasiurus borealis, 442
macrodactylus, Myotis, 272
macrotis, Vulpes, 351
Maine, 129, 552
Manatee, 288
manatus, Trichechus, 288
maniculatus, Peromyscus, 74, 189, 358
Manis gigantea, Africa, distr., hab., 531
longicaudatus, Africa, distr., descr., hab., meas., par., 531
tricuspis, Africa, distr., descr., meas., par., 531
Manitoba, 64, 299, 447
Mann, Peter M.:
Keeping short-tailed shrews in captivity, 274
Manville, Richard H.:
Hibernation of meadow jumping mouse, 122
Unusual sex ratio in Peromyscus, 122
Manzer, J. I. and I. McT. Cowan:
Northern fur seal in the inside coastal waters of British Columbia, 83
Marking:
Mustela, 114
Thomomys, 201
Marmota flaviventris, Ariz., foss., distr., 289; Colo., distr., 80
monax monax, Ind., distr., wt., 407
monax ochracea, Alaska, distr., 291
monax rufescens, N. Y., distr., hab., 395
Marshall, William H.:
Summer weights of raccoons in northern Minnesota, 445
Marsupial, 274
marsupialis, Didelphis, 382, 407, 431
Marten, 375, 521
stone, 257
Martes americana, Alaska, phys., 375; Colo., distr., 80
americana origenes, Colo., hab., distr., pop., 521
foina, Iraq, distr., 257
pennanti, Colo., distr., 80
pennanti pennanti, W. Va., foss., distr., 287
Maryland, 113, 475
Massachusetts, 128, 231
Maternal behavior, Rattus, 177
Mating:
Erethizon, 452
Lagenorhynchus, 311
Tursiops, 311

Measurements:
Aplodontia, 87
Apodemus, 272
Artibeus, 283
Balaena, 456
Callorhinus, 83
Castor, 506
Eptesicus, 543
Eumops, 111
Idionycteris, 546
Lagenorhynchus, 128
Lasiurus, 111, 281, 543
Microtus, 120, 249
Miniopterus, 257, 272
Mustela, 113
Myotis, 272, 543
Napaeozapus, 196
Neofiber, 448
Notiosorex, 278
Nycticeius, 282, 543
Ondatra, 494, 501
Perognathus, 541
Pipistrellus, 543
Sorex, 276, 277, 435, 436
Urocyon, 346
Zapus, 122
Megalocnus rodens, Cuba, foss., descr., 423
megalophylla, Mormoops, 440
Melanism, Sylvilagus, 271
Menzies, G. C.:
(see Eads, R. B. et al)
Mephitis mephitis, Ind., distr., 407
mephitis hudsonica, phys., 112
mephitis nigra, N. Y., distr., hab., 395
mephitis, Mephitis, 112, 395, 407
merriami
Dipodomys, 124
Sorex, 276, 277, 436
Meriones crassus charon, Iraq, distr., hab., 417
lybicus syrius, Iraq, distr., hab., 417
persicus, Iraq, distr., 257; Iraq. distr., hab., 417
Metabolism, Eptesicus, 31
Methods, study of burrows, 23
Metzger, Brice:
Partial albinism in Myotis sodalis, 546
mexicana, Tadarida, 42
mexicanus, Microtus, 436
Mexico, 283, 288, 547
Michigan, 121, 122, 231
Microenvironment, Citellus, 124
Microsorex hoyi winnemana, Ky., distr., 438
Microtus, anat., 446
californicus, Calif., hab., anat., phys., 213; Calif., pel., 249
longicaudus, Colo., distr., 80
mexicanus mogollonensis, Colo., distr., hab., 436
montanus, Colo., distr., 80
ochrogaster ochrogaster, Ind., distr., hab., 407
pennsylvanicus, Colo., distr., 80; hab., 297; N. C., hab. 427; Ont., hab., 119; Ont., hab., 121; S. Dak., wt., hab., 120
pennsylvanicus pennsylvanicus, Ind., hab., 407; N. Y., distr., hab., 395; wt., hab., gen., 298
richardsoni, Colo., distr., 80
socialis, Iraq, distr., 257
Migration:
Alces, 486
Delphinus, 311
Globicephala, 311
Grampus, 311
Lagenorhynchus, 311
Lasionycteris, 442
Lasiurus, 442
Odocoileus, 143
Phocoenoides, 311
Rangifer, 337
Tadarida, 42
migratorius, Cricetulus, 257
Miniopterus schreibersii fuliginosus, Japan, distr., 272
schreibersi pulcher, Iraq, orig. desc., distr., anat., 257
Mink, 114, 116, 407
Minnesota, 31, 282
Missouri, 231, 280
Mitchell, Ormand G.:
Trypanosoma vespertilionis from some southern California bats, 443
Moisan, Gaston:
Late breeding in moose, Alces alces, 300
Mole:
eastern, 407
European, 438
star-nosed, 119, 223, 395
Molerat, Palestine, 257
Molt:
Microtus, 249
Peromyscus, 516
Thomomys, 201
monax, Marmota, 291, 395, 407
Montana, 94, 264
montanus, Microtus, 80
Moose, 119, 300, 458, 486

Morejohn, G. Victor and Walter E. Howard:
Molt in the pocket gopher, Thomomys bottae, 201
Mormoops megalophylla senicula, Tex., distr., hab., 440
Mortality:
Lepus, 94
Ondatra, 494
Mouse:
big-eared, 189
deer, 74, 121, 516
field, 213, 297
golden, 427
harvest, 427
house, 407, 427
Japanese field, 272
Japanese wood, 272
jumping, 299
lemming, 407, 413
little pocket, 451
long-tailed field, 257
meadow, 119, 249, 395, 427
meadow jumping, 119, 122, 395
pine, 427
pocket, 451
red-backed, 119, 189
striped field, 1
white-footed, 122, 189, 358, 395, 407, 427, 513
woodland jumping, 119
Movements:
Citellus, 189
Corynorhinus, 48
Eptesicus, 48
Eutamias, 189
Myotis, 48
Peromyscus, 189, 358
Pipistrellus, 48
Sorex, 189
Urocyon, 346
Vulpes, 351
Mumford, Russell E. and Charles O. Handley, Jr.:
Notes on the mammals of Jackson County, Indiana, 407
murinus, Suncus, 278
Muroidea, anat., 295
Mus musculus, Ind., distr., 407; N. C., hab., 427
musculus, Mus, 407, 427
Muskrat, 395, 407
round-tailed, 448
Mustela erminea cicognanii, Md., distr., pel., 113; N. Y., distr., hab., 395
frenata, Ind., distr., 407
rixosa campestris, Neb., distr., 271
vison, B. C., hab., 114; Norway, distr., 116
vison mink, Ind., distr., hab., 407
Mustelidae, tax., 11
Myotis keenii, hab., 48
keenii septentrionalis, Ind., distr., hab., meas., wt., 543
lucifugus, hab., 48
lucifugus lucifugus, Ind., distr., hab., 407; Ind., distr., hab., meas., wt., 543; N. J., hab., 440; N. Y., anat., 58; N. Y., distr., hab., 395; O., hab., 441
macrodactylus, Japan, distr., 272
sodalis, hab., 48; Ky, gen., 546
subulatus, hab., 48
subulatus leibii, N. Y., distr., hab., 441
thysanodes thysanodes, Calif., distr., 545
velifer hab., 48
yumanensis sociabilis, Calif., par., 443

nanus, Sorex, 543
Napaeozapus insignis, Ont., hab., 119
insignis insignis, N. H., hab., wt., 196
Natality rate, Peromyscus, 513
Nebraska, 170, 271, 445, 501
Neofiber alleni nigrescens, Fla., descr., hab., wt., 448
Neotoma cinerea, Calif., hab., 189
fuscipes, Calif., hab., 189; Calif., hab., 371
Nesslinger, Carlita L.:
Ossification centers and skeletal development in the postnatal Virginia opossum, 382
Nest:
Microtus, 120
Sorex, 277
Tamias, 23
New Hampshire, 196, 277
New Jersey, 110, 440, 513
New Mexico, 277
New York, 58, 223, 298, 382, 395, 516
Newfoundland, 538
Nice, Constance:
(see Nice, Margaret M., Nice and Ewers)
Nice, Margaret M., Constance Nice and Dorothea Ewers:
Comparison of behavior development in snowshoe hares and red squirrels, 64
niger, Sciurus, 407, 525
nippon, Cervus, 99
noctivagans, Lasionycteris, 111, 282, 442

Nocturnal, Peromyscus, 74
Norris, Kenneth S.:
(see Brown, David H. and Norris)
North America, 236
North Carolina, 122, 427
North Dakota, 525
norvegicus, Rattus, 177, 181, 272, 378, 395, 407, 475
Norway, 116
Notiosorex crawfordi, Okla., anat., distr., 278
crawfordi crawfordi, Calif., distr., hab., 108
Nursery, Myotis, 48
nuttalli, Peromyscus, 427
Nycticeius humeralis, Ind., distr., 282; Ind., distr., hab., meas., wt., 543

obliquidens, Lagenorhyncus, 311
occidentalis, Clethrionomys, 189
Occurence:
Callorhinus, 83
Lagenorhynchus, 128
Lasiurus, 111
Notiosorex, 108
Pitymys, 121
Ochotona princeps, Colo., distr., 80
ochrogaster, Microtus, 407
Odocoileus, Mass., Ida., Mo., Mich., anat., gen., 231
hemionus, Ariz., hab., 458
hemionus columbianus, 165; Calif., hab., 143
hemionus hemionus, Ia., distr., 457
virginianus, Ind., distr., 407; Me., dis., 552; Ont., 119
virginianus borealis, N. Y., distr., 395
Ohio, 284, 441, 543
Oklahoma, 42, 278
Ondatra zibethicus, Ind., distr., hab., 407
zibethicus cinnamominus, Nebr., anat., meas., 501
zibethicus osoyoosensis, Ida., hab., phys., wt., 494
zibethicus zibethicus, N. Y., distr., hab., 395
Ontario, 119, 121, 274, 431
Opossum, 382, 407, 431
ordii, Dipodomys, 449
Oregon, 449
Orr, Robert T.:
The distribution of Myotis thysanodes in California, 545
Ossification centers, Didelphis, 382
Otaria jubata, distr., 549; Galapagos Is., hab., 287
Otariidae, tax., 11
Otter:
river, 284
sea, 375
Ovarian follicles, Microtus, 213
Ovary, Castor, 506
Ovis **catclawensis**, Ariz, orig. desc., foss. 105
Ovulation, Microtus, 213

Packard, Ross L.:
An observation on quadruplets in the red bat, 279
pallidus, Antrozous, 443
palustris, Sorex, 80, 277
Pangolin:
black-bellied, 531
giant, 531
tri-cusped, 531
Panuska, Joseph A. and Nelson J. Wade:
The burrow of Tamias striatus, 23
Parasites:
Antrozous, 443
Corynorhinus, 443
Eptesicus, 443
Manis, 531
Myotis, 443
Rangifer, 337
Rattus, 181
Vulpes, 351
Parke, Wesley W.:
Bronchial diverticula in Blarina brevicauda, 236
Parturition:
Aplondontia, 87
Mephitis, 112
parva, Cryptotis, 407
Patten, Bernard C., and Marie A. Patten:
Swimming ability of the little brown bat, 440
Patten, Marie A.:
(see Patten, Bernard C. and Patten)
Paula Couto, Carlos de:
On two mounted skeletons of Megaloc-nus rodens, 423
Pecari angulatus, anat., 247
Peccary, 246
Pelage change, Peromyscus, 516
pennanti, Martes, 80, 287
Pennsylvania, 90
pennsylvanicus, Microtus, 80, 119, 120, 121, 297, 298, 395, 407, 427

Perognathus fasciatus callistus, Utah, distr., hab., 451
longimembris, Utah, pel., 451
Peromyscus, Mich., distr., 121; as food, 351;
leucopus, Mich., 122; N. C., hab., phys., 427; N. J., hab., phys., pop., 513
leucopus noveboracensis, Ind., distr., hab., 407; N. Y., distr., hab., 395; N. Y., pel., wt., 516
maniculatus, Calif., hab., 189; hab., 358
maniculatus sonoriensis, Calif., hab., wt., 74
nuttalli, N. C., hab., 427
truei, Calif., hab., 189; Calif., hab., 358
persicus, Meriones, 257, 417
Peru, 284
Peterson, George D.:
Suncus murinus, a recent introduction to Guam, 278
Peterson, Randolph L.:
Phenacomys eaten by speckled trout, 121
Peterson, Randolph L. and S. C. Downing:
Distributional records of the opossum in Ontario, 431
Pfeiffer, E. W.:
Electrocardiogram of the bobcat, 549
Notes on reproduction in the kangaroo rat, Dipodomys, 449
The bobcat as a laboratory animal for courses in Zoology, 548
Phenacomys, Ont., hab., 121
Phillips, Richard Stuart:
Notes on a captive short-tailed shrew, 543
Phocoenoides dalli, Calif., hab., 311
phyllotis, Idionycteris, 546
physalus, Balaenoptera, 455
Physeter, Mexico, distr., 288
pinetorum, Pitymys, 121, 427
Pipestoneomys bisulcatus, Mont., foss., orig. desc., 264
Pipistrel, eastern, 395
Pipistrelle, eastern 407
Pipistrellus subflavus, Ind., distr., hab., 407; hab., 48
subflavus obscurus, Ind., distr., hab., meas., wt., 543; N. Y., distr., hab., 395
subflavus subflavus, Ind., distr., hab., meas., wt., 543
Pituitary, Microtus, 446
Pituitary weights, Rattus, 475
Pitymys pinetorum, N. C., hab., 427
pinetorum carbonarius, Ky., distr., 121
Play:
Lagenorhynchus, 311
Tursiops, 311
plicata, Balantiopteryx, 547
Pliohippus, S. D., foss., hab., 459
Poison, Peromyscus, 358
Population density, Ondatra, 494
Populations:
Alces, 119
Apodemus, 1
Citellus, 123
Martes, 521
Odocoileus, 119, 143
Peromyscus, 121
Rattus, 475
Tadarida, 42
Ursus, 119
Porcupine, 395, 452
Indian crested, 299
Porpoise:
Dall's, 311
white-sided, 128
Preble, Norman A.:
Notes on the life history of Napaeozapus, 196
The hoary bat in eastern Kansas, 111
Predator, as:
Dusicyon, 284
Felis, 119
Canis, 337
Predators of:
Clethrionomys, 119
Condylura, 119
Glaucomys, 119
Microtus, 119, 121
Napaeozapus, 119
Notiosorex, 108
Phenacomys, 121
Rangifer, 337
Sorex, 119
Tamias, 119
Zapus, 119
Pregnancy, Peromyscus 513
princeps, Ochotona, 80
Zapus, 80
Procyon lotor, Fla., tech., 548; Ind., distr., hab., 407; Nebr., hab., phys., 170
lotor elucus, Fla., gen., 120
lotor hirtus, Minn., wt., 445
lotor lotor, N. Y., distr., hab., 395
Procyonidae, tax., 11
Pryor, Lorenzo B.:
Sarcoptic mange in wild foxes in Pennsylvania, 90

pseudaxis, Cervus, 99
Pseudorca crassidens, Egypt, distr., 456

Quebec, 300

Rabbit:
black-tailed jack, 453
cottontail, 271, 300, 407
eastern cottontail, 395
Raccoon, 120, 170, 395, 407, 445, 548
rafinesquii, Corynorhinus, 443
Rahm, U.:
Notes on pangolins of the Ivory Coast, 531
Range:
Apodemus, 257
Cricetulus, 257
Crocidura, 257
Dasypterus, 440
Didelphis, 431
Lasiurus, 281
Martes, 257
Meriones, 257
Microsorex, 438
Microtus, 257, 436
Mormoops, 440
Myotis, 441
Odocoileus, 457
Pseudorca, 456
Rattus, 110
Sciurus, 257
Sorex, 110, 435, 436
Rangifer arcticus, Alaska, dis., hab., par., 337; Alaska, phys., 375
Rat:
albino, 378
black, 110
brown, 181
bushy-tailed wood, 189
cotton, 427
dusky-footed wood, 189
kangaroo, 449
Merriam kangaroo, 124
Norway, 177, 272, 395, 407
Persian sand, 257, 417
roof, 255
sand, 417
wood, 371
Rattus norvegicus, hab., 177; Md., phys., pop., wt., 475; phys., 378; Alaska, dis., par., wt., phys., 181; Ind., distr., 407; Japan, distr., 272; N. Y., distr., hab., 395
rattus, gen., 255; Ky., distr., 110
rattus, Rattus, 110, 255
Record:
Artibeus, 283
Martes, 287
Nycticeius, 282
rectipinna, Grampus, 311
Reed, Charles A.:
(Review of) E. L. DuBrul and Harry Sicher, The adaptive chin, 459
Reeves, Henry M. and Roger M. Williams:
Reproduction, size and mortality in the Rocky Mountain muskrat, 494
Reilly, E. M., Jr.:
Malarrangement of teeth in Clethrionomys gapperi, 298
Reithrodontomys humulis, N. C., hab., phys., 427
Remington, Jack D.:
(see Yeager, Lee E. and Remington)
Reproduction:
Castor, 506
Dicrostonyx, 447
Dipodomys, 449
Neofiber, 448
Ondatra, 494
Peromyscus, 513
Rattus, 181
Talpa, 438
Urocyon, 346
Reproductive cycle, Microtus, 213
Respiration, Balaena, 456
Respiratory system, Blarina, 236
Richards, A. Glenn:
(see Beer, James R. and Richards)
richardsoni, Citellus, 550
Microtus, 80
Ridenhour, Richard L.:
(see Cramblet, Howard M. and Ridenhour)
Ringworm, Lepus, 94
Ritcey, R. W. and R. Y. Edwards:
Live trapping mink in British Columbia, 114
Ritcey, Ralph W.:
(see Edwards, R. Yorke and Ritcey)
rixosa, Mustela, 271
Rodeck, Hugo G. and Sydney Anderson:
Sorex merriami and Microtus mexicanus in Colorado, 436
rodens, Megalocnus, 423
Roost:
Dasypterus, 443
Eptesicus, 441
Myotis, 441

Ross, Sherman and Jacob Berg:
Stability of food dominance relationships in a flock of goats, 129
rotundus, Desmodus, 547
rufa, Aplodontia, 87
rufus, Lynx, 375, 548, 549
Russell, Robert J.:
Artibeus lituratus in Morelos, Mexico, 283
Rutting ground, Alces, 458

sabrinus, Glaucomys, 80, 119, 395
Salvin, S. B.:
(see Adams, Lowell, Salvin and Hadlow)
Sanderson, Glen C.:
Mule deer record for Iowa, 457
Sanderson, Ivan T.:
Living mammals of the world (Reviewed), 132
Sanitation, Tamias, 23
Sarcoptic mange:
Urocyon, 90
Vulpes, 90
Sather, J. Henry:
Skull dimensions of the Great Plains muskrat, Ondatra zibethicus cinnamominus, 501
Scalopus aquaticus machrinus, Ind., distr., hab., 407
scammoni, Globicephala, 311
Schevill, William E.:
Lagenorhynchus acutus off Cape Cod, 128
Schiller, Everett L.:
Ecology and health of Rattus at Nome, Alaska, 181
Schooling, Phocoenoides, 311
Schorger, A. W.:
Abundance of deer mice in Tuscola County, Michigan, in 1854, 121
schreibersi, Miniopterus, 257, 272
Schwager, Harold and Allen H. Benton:
Myotis subulatus leibii in eastern New York, 441
Sciurus aberti, Colo., distr., 80
anomalus pallescens, Iraq, distr., 257
carolinensis, N. Dak., distr., 525
carolinensis carolinensis, Ind., distr., hab., 407
carolinensis leucotis, N. Y., distr., hab., 395
niger, N. Dak., distr., 525
niger rufiventer, Ind., distr., hab., 407
Sea lion:
Galapagoan, 549
southern, 287, 549
Seal:
fur, 549
northern fur, 83, 327
Seasonal activity, Odocoileus, 143
Seasonal weights:
Eptesicus, 31
Tadarida, 42
serotinus, Eptesicus, 257
Setzer, Henry W.:
(Review of) Traité de Zoologie, anatomie Systématique, Biologie, Vol. XVII, 555
Sex ratio:
Castor, 506
Glaucomys, 294
Ondatra, 494
Peromyscus, 122
Tadarida, 42
Urocyon, 346
Sexual maturity, Peromyscus, 513
Shadle, Albert R.:
Parturition in a skunk, Mephitis mephitis hudsonica, 112
Sharp, Louise H.:
(see Sharp, Ward M. and Sharp)
Sharp, Ward M. and Louise H. Sharp:
Nocturnal movements and behavior of wild raccoons at a winter feeding station, 170
Sherman, H. B.:
Third record of the hoary bat in Florida, 281
Shrew, 119, 278
Bachman's, 110
dwarf, 543
gray, 108
least, 407
lesser white-toothed, 257
long-tailed, 435
masked, 275
Merriam, 276, 277, 436
musk, 278
pygmy, 438
short-tailed, 274, 395, 407, 427, 543
smoky, 395
southeastern, 427
Trowbridge, 189
water, 277
Siebenaler, J. B. and David K. Caldwell:
Cooperation among adult dolphins, 126

Siegler, Hilbert R.:
Immature water shrews found in a beaver lodge, 277
Sigmodon hispidus, N. C., hab., phys., 427
Sika dugenneanus, syn., 99
Sillman, E. I. and A. A. Wellwood:
Albino Microtus reared in the laboratory, 298
Skeletal development, Didelphis, 382
Skull, Ondatra, 501
Skunk:
eastern, 395
striped, 112, 407
Smith, Charles E., Jr.:
(see Barbour, Roger W. and Smith)
Smith, Elizabeth and Woodrow Goodpaster:
Adjacent roosts of Eptesicus and Myotis, 441
Social behavior, Procyon, 170
Social relationships, Odocoileus, 143
socialis, Microtus, 257
sodalis, Myotis, 48
sonomae, Eutamias, 189
Sorex cinereus, Colo., distr., 80; Ont., hab., 119; S. Dak., pel., 275
dispar, N. J., distr., hab., 110; Va., distr., hab., 435
fumeus fumeus, N. Y., distr., hab., 395
longirostris, Ky., distr., 110; N. C., hab., 427
merriami, Colo., hab., distr., 276; N. M., distr., 277; Wash., distr., hab., wt., 436
merriami leucogenys, Colo., distr., 436
nanus, S. D., distr., meas., 543
palustris, Colo., distr., 80
palustris albibarbis, N. H., hab., wt., 277
trowbridgii, Calif., hab., 189
vagrans, Colo., distr., 80
South Dakota, 120, 275, 459, 543
Spalax ehrenbergi, Iraq, hab., distr., 257
Spalsbury, Jeff Richard:
Unusual sex behavior of a male porcupine, Erethizon dorsatum epixanthum, 452
speciosus, Apodemus, 272
Spermatogenesis:
Castor, 506
Urocyon, 346
Squirrel:
digger, 189
eastern flying, 295
flying, 122, 294
fox, 407, 525
golden-mantled, 291
gray, 407, 525
Mogollon red, 292
northern flying, 119, 395
northern gray, 395
Persian, 257
red, 64
southern flying, 407
southern red, 395
Stegeman, LeRoy C.:
Tooth development and wear in Myotis, 58
Storer, Tracy I. and Lloyd P. Tevis, Jr.:
California grizzly (Reviewed), 301
striatus, Tamias, 23, 119, 395, 407
suaveolens, Crocidura, 257
subflavus, Pipistrellus, 48, 395, 407, 543
subulatus, Myotis, 48, 441
Sullivan, Edward G.:
Gray fox reproduction, denning, range, and weights in Alabama, 346
Suncus murinus, Guam, distr., hab., 278
Sutton, R. W.:
Aquatic tendencies in the jumping mouse, 299
Svihla, Arthur:
The relation of coloration in mammals to low temperature, 378
Swenson, Sherrill:
(see Macdonald, J. R. and Swenson)
Swimming:
Myotis, 440
Zapus, 299
sylvaticus, Apodemus, 257
Sylvilagus floridanus, Ind., distr., hab., 407
floridanus mearnsi, Ind., hab., 300; Nebr., distr., pel., 271; N. Y., distr., 395
Synaptomys cooperi cooperi, Ind. distr., hab., tax., 407
cooperi kentucki, Ky., hab., orig. desc., 413
cooperi stonei, Ky., hab., tax., 413
Synonymy:
Cervus, 99
Sika, 99

Taber, Richard D.:
(see Dasmann, Raymond F. and Taber)
Tadarida brasiliensis, Ariz., hab., 48
femerosacca, Ariz., hab., 282
mexicana, Okla., hab., wt., 42

Tagging:
Procyon, 548
Urocyon, 548
Talpa europaea, Eng., phys., 438
talpoides, Thomomys, 540
Tamias striatus, Ont., hab., 119; Wisc., hab., 23
striatus lysteri, N. Y., distr., hab., 395
striatus ohionensis, Ind., distr., tax., 407
Tamiasciurus hudsonicus, Colo., distr., 80
hudsonicus loquax, Ind., wt., hab., phys., 64; N. Y. distr., hab., 395
hudsonicus mogollonensis, Ariz., distr., 292
Tatera indica, Iraq, distr., hab., 417
Taxonomy:
Apodemus, 272
Crocidura, 257
Eptesicus, 257
Martes, 257
Meriones, 257
Miniopterus, 257
Pipestoneomys, 264
Sciurus, 257
Spalax, 257
Ursus, 538
Techniques:
cleaning skulls, 125
color description, 269
measuring activity of mice, 74
serological, 11
Teeth:
Clethrionomys, 298
Lepus, 453
Myotis, 58
Temperature (body):
Callorhinus, 327
Rattus, 378
Temperature (scrotal), Callorhinus, 327
Temperature effect:
Eptesicus, 31
Procyon, 170
Terres, John K.:
Migration records of the red bat, Lasiurus borealis, 442
Territoriality:
Cervus, 165
Odocoileus, 143, 165
Tevis, Lloyd, Jr.:
Behavior of a population of forest-mice when subjected to poison, 358
Invasion of a logged area by golden-mantled squirrels, 291
Responses of small mammal populations to logging of Douglas-fir, 189
(see Linsdale, Jean M. and Tevis)
Texas, 440
Thomomys bottae, Calif., pel., 201
talpoides, Kan., foss., distr., 540
Thymus weights, Rattus, 475
Thyroid weights, Rattus, 475
thysanodes, Myotis, 545
Tomkins, Ivan R.:
The manatee along the Georgia coast, 288
Toner, G. C.:
House cat predation on small animals, 119
Some numbers for big game in Ontario, 119
townsendii:
Citellus, 123, 124
Corynorhinus, 48
Eutamias, 189
Trap protection, 428
Trapping, Thomomys, 201
Travels, Mustela, 114
Trichechus manatus latirostris, Ga., distr., 288
tricuspis, Manis, 531
trowbridgii, Sorex, 189
truei, Peromyscus, 189, 358
truncatus, Tursiops, 126, 311, 454
Tumor, Odocoileus, 552
Tursiops truncatus, hab., 311; Fla., hab., 126; Fla., hab., 454
Twente, John W., Jr.:
Ecological observations on a colony of Tadarida mexicana, 42
Type locality, Tamiasciurus, 292

Uhlig, Hans G.:
Reproduction in the eastern flying squirrel in West Virginia, 295
umbrinus, Eutamias, 80
underwoodi, Eumops, 111
Urocyon cinereoargenteus, Ala., hab., phys., wt., 346; Fla., tech., 548; Ind., distr., hab., 407; Pa. par., 90
Ursidae, tax., 11
ursinus, Callorhinus, 83, 327
Ursus americanus, Ont., 120
americanus hamiltoni, Newfoundland, orig. desc., 538
Utah, 123, 124, 351, 451, 550

vagrans, Sorex, 80
Vazquez, Alberto Wanous:
A new southern record for Mustela erminea cicognanii, 113
Velich, Ralph:
Mammals from eastern Nebraska, 271
velifer, Myotis, 48
Veracruz, 443
Vermont, 506
Virginia, 111, 435
virginianus, Odocoileus, 119, 395, 407, 552
vison, Mustela, 114, 116, 407
Viverridae, tax., 11
Voice:
Dusicyon, 284
Suncus, 278
Tamiasciurus, 64
volans, Glaucomys, 122, 294, 295, 407
Vole:
meadow, 120, 298, 407, 446
Mexican, 436
prairie, 407
social, 257
Vulpes fulva, Alaska, phys., 375; Ind., distr., hab., 407; N. Y., distr., hab., 395; Pa., par., 90
macrotis, Utah, hab., phys., par., wt., 351

Wade, Nelson J.:
(see Panuska, Joseph A. and Wade)
Washington, 436
Wassif, Kamal:
Pseudorca crassidens Owen from the Mediterranean shores of Egypt, 456
Water consumption, Peromyscus, 74
Water requirements, Peromyscus, 74
Waters, Joseph H.:
Second find of Thomomys talpoides from late Pleistocene in Kansas, 540
Weaning, Lepus, 64
Weasel, 113
Bonaparte's, 395
least, 271
long-tailed, 407
Weight:
Callorhinus, 83
Castor, 506
Delphinus, 311
Eptesicus, 543
Globicephala, 311
Grampus, 311
Lagenorhynchus, 311
Lasiurus, 543
Myotis, 543
Napaeozapus, 196
Neofiber, 448
Nycticeius, 543
Ondatra, 494
Peromyscus, 516
Pipistrellus, 543
Procyon, 445
Sorex, 436
Urocyon, 346
Wellwood, A. A.:
Some food preferences in field mice, 297
(see Sillman, E. I. and Wellwood)
Werner, William E., Jr.:
Mammals of the Thousand Islands region, New York, 395
West Virginia, 280, 287, 295
Whale:
false killer, 456
finback, 455
Pacific killer, 311
Pacific pilot, 311
southern right, 456
sperm, 288
Wiens, Alvin L.:
(see Leone, Charles A. and Wiens)
Wildhagen, Aage:
Present distribution of North American mink in Norway, 116
Wilke, Ford:
(see Bartholomew, George A. and Wilke)
Williams, Roger M.:
(see Reeves, Henry M. and Williams)
Wilson, Robert W.:
Dental formula in the Muroidea, 295
Winter range, Lasiurus, 280
Wisconsin, 23, 279
Wiseman, J. S.:
(see Eads, R. B. et al)
Wislocki, George B.:
Further notes on antlers in female deer of the genus Odocoileus, 231
Wolf, 337
gray, 375
wollebaeki, Zalophus, 549
Wolverine, 445
Wood, Casey A. and F. Marjorie Fyfe:
The art of falconry by Emperor Frederick II (Reviewed), 301
Woodchuck, 289, 291, 395, 407
Woodin, Howard E.:

The appearance of a moose rutting ground, 458
Wright, Barton A.:
(see Hibbard, Claude W. and Wright)
Wyoming, 550

Yeager, Lee E. and Jack D. Remington:
Sight observations of Colorado martens, 1950–1955, 521
Young:
Aplodontia, 87
Condylura, 223
Delphinus, 311
Globicephala, 311
Lasiurus, 279
Lepus, 64
Microtus, 120
Neofiber, 448
Sorex, 277
Tamiasciurus, 64
Youngman, Phillip M.:
A population of the striped field mouse, Apodemus agrarius coreae, in central Korea, 1
yumanensis, Myotis, 443

Zalophus wollebaeki, Galapagos Is., distr., 549
Zapus hudsonius, Ont., hab., 119
hudsonius campestris, Manitoba, hab., 299
hudsonius hudsonius, Mich., hab., 122; N. Y. distr., hab., 395
princeps, Colo., distr., 80
zibethicus, Ondatra, 395, 407, 494, 501
Zoogeography:
Citellus, 80
Clethrionomys, 80
Erethizon, 80
Eutamias, 80
Glaucomys, 80
Marmota, 80
Martes, 80
Microtus, 80
Ochotona, 80
Sciurus, 80
Sorex, 80
Tamiasciurus, 80
Zapus, 80